

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(2002/0172967).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/05 11:45
L2	0	(2002/00172967).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/05 11:43
L3	135	(562/622).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/05 13:43
L4	544	(514/575).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/05 11:43
L5	20430	benzamide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/05 12:23
L6	641	L3 or L4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/05 11:43
L7	2	("20020172967").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/05 11:43
L8	2	("5700811").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/05 11:43
L9	2	("5369108").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/05 11:43
L10	2	("6087367").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/05 11:43
L11	38	L3 and L4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/05 11:43

## EAST Search History

L12	113	L5 and L6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/05 11:43
L13	0	(2002/0172967).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/05 11:45
L14	15	(benzamide and (hydioxamic or hydroxamate)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/05 12:31
L16	339	(562/621).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/05 13:44
L18	37	I5 and I16	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/05 13:45

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NEWS	4	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS	5	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS	6	JAN 22	CA/CAplus updated with revised CAS roles
NEWS	7	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS	8	JAN 29	PHAR reloaded with new search and display fields
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NEWS	11	FEB 15	RUSSIAPAT enhanced with pre-1994 records
NEWS	12	FEB 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS	13	FEB 26	MEDLINE reloaded with enhancements
NEWS	14	FEB 26	EMBASE enhanced with Clinical Trial Number field
NEWS	15	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS	16	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS	17	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
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NEWS	20	MAR 20	MARPAT now updated daily
NEWS	21	MAR 22	LWPI reloaded
NEWS	22	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS	23	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS	24	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS	25	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS	26	APR 30	CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS	27	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS	28	MAY 01	New CAS web site launched
NEWS	29	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS	30	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS	31	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS	32	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS	33	MAY 21	CA/CAplus enhanced with additional kind codes for German patents
NEWS	34	MAY 22	CA/CAplus enhanced with IPC reclassification in Japanese patents
NEWS EXPRESS			NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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```

=> e Benzamide, 4- (benzoylamino) -N-hydroxy- /cn
E1      1    BENZAMIDE, 4- (BENZOYLAMINO) -N-HEPTYL- /CN
E2      1    BENZAMIDE, 4- (BENZOYLAMINO) -N-HEXYL- /CN
E3      1 --> BENZAMIDE, 4- (BENZOYLAMINO) -N-HYDROXY- /CN
E4      1    BENZAMIDE, 4- (BENZOYLAMINO) -N-METHYL- /CN
E5      1    BENZAMIDE, 4- (BENZOYLAMINO) -N-METHYL-N- (2- (1-PIPERIDINYL) PHE-
          NYL) - /CN
E6      1    BENZAMIDE, 4- (BENZOYLAMINO) -N-METHYL-N- (2- (4-PHENYL-1-PIPERI-
          DINYL) -4-PYRIMIDINYL) - /CN
E7      1    BENZAMIDE, 4- (BENZOYLAMINO) -N-METHYL-N- (2- (4-PHENYL-1-PIPERI-
          DINYL) -4-PYRIMIDINYL) -, MONO (4-METHYLBENZENESULFONATE) /CN
E8      1    BENZAMIDE, 4- (BENZOYLAMINO) -N-METHYL-N- (PHENYLMETHYL) - /CN
E9      1    BENZAMIDE, 4- (BENZOYLAMINO) -N-METHYL-N-PHENYL- /CN
E10     1    BENZAMIDE, 4- (BENZOYLAMINO) -N-OCTYL- /CN

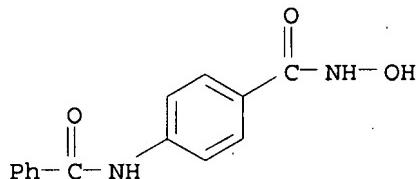
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E11 1 BENZAMIDE, 4-(BENZOYLAMINO)-N-PENTYL-/CN  
E12 1 BENZAMIDE, 4-(BENZOYLAMINO)-N-PHENYL-/CN

=> e3  
L1 1 "BENZAMIDE, 4-(BENZOYLAMINO)-N-HYDROXY-"/CN

=> d 11

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 847249-45-0 REGISTRY  
ED Entered STN: 25 Mar 2005  
CN Benzamide, 4-(benzoylamino)-N-hydroxy- (9CI) (CA INDEX NAME)  
MF C14 H12 N2 O3  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

4 REFERENCES IN FILE CA (1907 TO DATE)  
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	7.35	7.56

FILE 'CAPLUS' ENTERED AT 12:29:36 ON 05 JUN 2007  
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=> l1  
L2 4 L1

=> d 12 1-4 ti fbib abs

L2 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Hydroxamic acid derivative histone deacetylase inhibitors, and their therapeutic use  
AN 2006:333299 CAPLUS  
DN 144:343645  
TI Hydroxamic acid derivative histone deacetylase inhibitors, and their therapeutic use  
IN Chakravarty, Prasun K.; Kuo, Howard; Matthews, Jay M.; Meinke, Peter T.  
PA Merck & Co., Inc., USA  
SO PCT Int. Appl., 46 pp.  
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006017214	A2	20060216	WO 2005-US24512	20050708
	WO 2006017214	A3	20060601		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW. RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	AU 2005271841	A1	20060216	US 2004-587233P	P 20040712
				AU 2005-271841	20050708
				US 2004-587233P	P 20040712
				WO 2005-US24512	W 20050708
	CA 2573369	A1	20060216	CA 2005-2573369	20050708
				US 2004-587233P	P 20040712
				WO 2005-US24512	W 20050708
	EP 1789381	A2	20070530	EP 2005-770022	20050708
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			US 2004-587233P	P 20040712
				WO 2005-US24512	W 20050708
	IN 2007DN01003	A	20070427	IN 2007-DN1003	20070207
				US 2004-587233P	P 20040712
				WO 2005-US24512	W 20050708

OS MARPAT 144:343645

AB The invention discloses hydroxamic acid derivs. that are inhibitors of histone deacetylase. The compds. are useful for treating cellular proliferative diseases, including cancer. Further, the compds. are useful for treating neurodegenerative diseases, schizophrenia, and stroke, among other diseases. The compds. also have antiprotozoal properties. Compound preparation is included.

L2 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Structure-Based Optimization of Phenylbutyrate-Derived Histone Deacetylase Inhibitors  
AN 2005:604284 CAPLUS  
DN 143:259486  
TI Structure-Based Optimization of Phenylbutyrate-Derived Histone Deacetylase Inhibitors  
AU Lu, Qiang; Wang, Da-Sheng; Chen, Chang-Shi; Hu, Yuan-Dong; Chen,

Ching-Shih  
 CS Division of Medicinal Chemistry, College of Pharmacy, The Ohio State University, Columbus, OH, 43210, USA  
 SO Journal of Medicinal Chemistry (2005), 48(17), 5530-5535  
 CODEN: JMCMAR; ISSN: 0022-2623  
 PB American Chemical Society  
 DT Journal  
 LA English  
 OS CASREACT 143:259486  
 AB Previously, the authors developed a strategy to develop a novel class of histone deacetylase (HDAC) inhibitors by tethering short-chain fatty acids with Zn<sup>2+</sup>-chelating motifs, which led to N-hydroxy-4-(4-phenylbutyryl-amino)benzamide (HTPB), a hydroxamate-tethered phenylbutyrate derivative with sub-micromolar potency in inhibiting HDAC activity and cancer cell proliferation. In this study, the authors carried out structure-based optimization of HTPB by using the framework generated by the structure of histone deacetylase-like protein (HDLP)-trichostatin A (TSA) complexes. Docking of HTPB into the HDLP binding domain suggested that the hydrophobic microenvironment encompassed by Phe-198 and Phe-200 could be exploited for structural optimization. This premise was corroborated by the greater potency of (S)-(+)-N-hydroxy-4-(3-methyl-2-phenylbutyrylamino)-benzamide [(S)-11] (IC<sub>50</sub> in HDAC inhibition, 16 nM), of which the iso-Pr moiety was favorable in interacting with this hydrophobic motif. (S)-11 at concns. as low as 0.1 μM was effective in causing histone hyperacetylation and p21WAF/CIP1 overexpression and suppressing proliferation in cancer cells.

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Zn<sup>2+</sup>-chelating motif-tethered short-chain fatty acids as a novel class of histone deacetylase inhibitors and their use as anticancer agents  
 AN 2005:540452 CAPLUS  
 DN 143:55641  
 TI Zn<sup>2+</sup>-chelating motif-tethered short-chain fatty acids as a novel class of histone deacetylase inhibitors and their use as anticancer agents  
 IN Chen, Ching-Shih; Qiang, Lu  
 PA The Ohio State University Research Foundation, USA  
 SO PCT Int. Appl., 90 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005055928	A2	20050623	WO 2004-US40211	20041201
	WO 2005055928	A3	20051006		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU	2004296764	A1	20050623	US 2003-526348P	P 20031202
				AU 2004-296764	20041201
				US 2003-526348P	P 20031202
				WO 2004-US40211	W 20041201
CA	2552279	A1	20050623	CA 2004-2552279	20041201
				US 2003-526348P	P 20031202

EP 1696898	A2	20060906	WO 2004-US40211	W 20041201
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS			EP 2004-812666	20041201
			US 2003-526348P	P 20031202
			WO 2004-US40211	W 20041201

OS CASREACT 143:55641; MARPAT 143:55641  
 AB The invention relates to histone deacetylase (HDAC) inhibitors including Zn<sup>2+</sup>-chelating motifs, based on short-chain fatty acids. Preparation of the HDAC inhibitors is described. Some of the HDAC inhibitors displayed antiproliferative activities at sub-μM concns. and can be used as anticancer agents. The compds. performed well in vitro and in vivo tests.

L2 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Preparation of arylhydroxamates as elastase and collagenase expression inhibitors for preventing skin aging.  
 AN 2005:182616 CAPLUS  
 DN 142:279954  
 TI Preparation of arylhydroxamates as elastase and collagenase expression inhibitors for preventing skin aging.  
 IN Rho, Ho Sik; Baek, Heung Soo; Kim, Su Jong; Kim, Su Nam; Chae, Byung Geun; Lee, Byoung Seok; Kim, Bae Hwan; Choi, Gyu Ho; Son, Eui Dong; Lee, Hae Kwang; Lee, Hye Won; Cho, Jun-cheol; Kim, Duck Hee; Chang, Ih Seop; Lee, Ok Sub  
 PA Amorepacific Corporation, S. Korea  
 SO PCT Int. Appl., 58 pp.  
 CODEN: PIXXD2

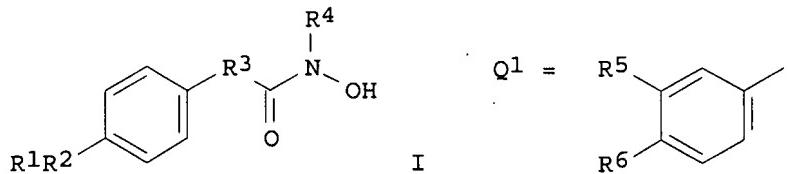
DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005019162	A1	20050303	WO 2004-KR2143	20040826
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			KR 2003-59177 KR 2004-20401 KR 2004-54886	A 20030826 A 20040325 A 20040714
	KR 2006005892	A	20060118	KR 2004-54886	20040714
EP 1660437		A1	20060531	EP 2004-774404	20040826
	R: FR			KR 2003-59177 KR 2004-20401 KR 2004-54886 WO 2004-KR2143	A 20030826 A 20040325 A 20040714 W 20040826
CN 1839115		A	20060927	CN 2004-80024139 KR 2003-59177 KR 2004-20401 KR 2004-54886 WO 2004-KR2143	20040826 A 20030826 A 20040325 A 20040714 W 20040826
JP 2007503430		T	20070222	JP 2006-524575 KR 2003-59177 KR 2004-20401 KR 2004-54886	20040826 A 20030826 A 20040325 A 20040714

US 2006252834	A1	20061109	WO 2004-KR2143	W 20040826
			US 2006-595124	20060615
			KR 2003-59177	A 20030826
			KR 2004-20401	A 20040325
			KR 2004-54886	A 20040714
			WO 2004-KR2143	W 20040826

OS MARPAT 142:279954  
GI



AB Title compds. [I; R1 = adamantyl, Q1; R5, R6 = H, alkyl, cycloalkyl; R2 = CONH, NHCO, CONR7, NR7CO; R7 = alkyl; R3 = (CH)n; n = 0, 1; R4 = H, alkyl], were prepared Thus, 4-(phenylcarbonylamino)benzoic acid (preparation given) in pyridine at 10° was treated dropwise with Et chloroformate followed by stirring for 2 h at room temperature to give the anhydride. This was added to NH2OH.HCl in pyridine at 10° followed by stirring for 30 min. to give 65% N-[4-(N-hydroxycarbamoyl)phenyl]benzamide. The latter reduced collagenase expression in vitro to 78% of controls, vs. 85% for retinol.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT